

CLAIMS

1. A method of winding a toroidally wound electrodynamic machine characterised in that a set of bobbins are located in a rectilinear array, the rectilinearly located bobbins are wound with a continuous wire or a continuous set of parallel wires for each phase, the wound bobbins then being formed into a circular array as an electrodynamic machine winding.
2. A method as claimed in claim 1 characterised in that the each phase is wound one bobbin at a time.
3. A method as claimed in claim 1 characterised in that the assembly of pre-wound and electrically connected bobbins is formed into a circular array positioned about a toroidal core of magnetic material, such core passing through an aperture in each bobbin.
4. A method as claimed in claim 1 characterised in that the bobbins interfit, to positively locate with each other.
5. A method as claimed in claim 4 characterised in that the bobbins are manufactured jointly, as a single part or multiple inter-fitting parts which may be deformed into a toroid after winding.
6. A method as claimed in claim 1 characterised in that the bobbins are provided with pathways to support the wires as they pass from one bobbin to another.
7. A method as claimed in claim 6 characterised in that part of the pathway extends normal to a bobbin axis between two bobbins.
8. A wound bobbin set for a toroidally wound electrodynamic machine comprising a set of wound bobbins initially wound as a linear array and formed into a circular array positioned about a toroidal core of magnetic material, such core passing through the central aperture in each bobbin, the windings of two or more bobbins in each phase being formed from a continuous wire or a continuous set of parallel wires.
9. A wound bobbin set as claimed in claim 8 characterised in that the winding method and bobbins provide free space between the bobbins sufficient to allow forming them into a

circular array while still providing contact between the bobbins on the side of the bobbin core.

10. A wound bobbin set as claimed in claim 8 characterised in that the bobbins are tapered on the inner cheeks to facilitate forming into a circular array.
- 5 11. An electrodynamic machine when fitted with a winding as claimed in any preceding claim.